

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number:

**0 375 202
A1**

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 89312719.1

(51) Int. Cl.5: **B01J 27/138, B01J 27/10,
C07C 17/156, C07C 19/045**

(22) Date of filing: 06.12.89

(30) Priority: 20.12.88 GB 8829706

(43) Date of publication of application:
27.06.90 Bulletin 90/26

(84) Designated Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE

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(54) **Oxychlorination catalyst composition and an oxychlorination process using it.**

(57) Oxychlorination catalyst composition comprising a mixture of metallic chlorides carried on a support therefor, wherein said mixture consists essentially of a mixture of copper chloride, magnesium chloride, and potassium chloride. Also the oxychlorination of ethylene to 1,2-dichloroethane using such a catalyst composition.

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Cu:Mg:K atomic ratio of 1:0.1 to 1.0:0.1 to 1.0.

6. Oxychlorination catalyst composition according to any one of the preceding claims wherein the support material thereof is particulate alumina.

7. Oxychlorination catalyst composition according to claim 6 wherein the alumina is eta and/or gamma alumina.

8. Process for the oxychlorination of ethylene to 1,2-dichloroethane in which the oxychlorination reaction is performed using an oxychlorination catalyst composition comprising a mixture of metallic chlorides carried on a support therefor, wherein said mixture of metallic chlorides consists essentially of a mixture of copper chloride, magnesium chloride, and potassium chloride.

9. Process according to claim 8 wherein the oxychlorination catalyst composition employed contains a level of copper within the range of from 3 to 9% by weight based on the weight of the catalyst composition.

10. Process according to either claim 8 or claim 9 wherein the oxychlorination catalyst composition employed contains a level of magnesium within the range of from 0.2 to 3% by weight based on the weight of the catalyst composition.

11. Process according to any one of claims 8 to 10 wherein the oxychlorination catalyst composition employed contains a level of potassium within the range of 0.2 to 3% by weight based on the weight of the catalyst composition.

12. Process according to any one of claims 8 to 11 wherein the oxychlorination catalyst composition employed provides a Cu:Mg:K atomic ratio of 1:0.1 to 1.0:0.1 to 1.0.

13. Process according to any one of claims 8 to 12 wherein the support material of the oxychlorination catalyst composition employed in the process is particulate alumina.

14. Process according to claim 13 wherein the alumina of the catalyst composition used in the process is eta and/or gamma alumina.

15. Process according to any one of claims 8 to 14 wherein the catalyst composition is employed as a fluidised bed or a fixed bed of particles.



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EUROPEAN SEARCH REPORT

Application Number

EP 89 31 2719

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	DD-A- 249 008 (VEB CHEMIE KOMBINAT BITTERFELD) * Abstract; page 2, lines 1-4 and example 1 *	1,8	B 01 J 27/138 B 01 J 27/10 C 07 C 17/156 C 07 C 19/045
Y	EP-A-0 057 796 (ICI) * Abstract; page 3, lines 7-14; claims 1-14 *	1-14	
Y	EP-A-0 278 922 (ENICHEM) * Abstract; page 1, lines 30-61; page 2, lines 19-23; claims 1-9 *	1-14	
A	EP-A-0 206 265 (BASF)		
D,A	US-A-4 069 170 (BLAKE et al.)		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			B 01 J C 07 C
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 30-01-1990	Examiner LO CONTE C.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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